AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) An IR camera comprising

- registration means (1) for registering radiation from an area, or object,

- conversion means (5) for receiving a signal corresponding to the registered radiation ~~ra-diation~~ from the registration means (1),

- DV conversion means (9) for converting the signal to a standard DV format and feeding it to a linklayer module (11),

- physical layer means (15) for transmitting the converted signal,

characterized in that it comprises

- additional data means (3) for providing additional data related to the image processing ~~proc-essing~~, for inclusion of said additional data in the signal to be transmitted by the physical layer means (15).

2. (currently amended) An IR camera according to claim 1, wherein the physical layer means is adapted to the IEEE 1394 ~~FireWire~~ standard using 32kHz 2-ch mode.

3. (original) An IR camera according to claim 1, wherein the physical layer means is adapted to use the whole audio channel.

4. (currently amended) An IR camera according to claim 2, wherein the additional data means is arranged ar ranged to provide said additional data related to the image processing in the part of the signal normally reserved for audio information.

5. (currently amended) DV processing unit comprising

- receiving means (103) for receiving a DV stream, said DV stream comprising at least one IR image and calibration data

- sampling means (107) for forwarding each frame to a DV decoder (113) and to an extraction means (109) for extraction of calibration data from the DV stream,

- calculating means (111) arranged to receive the DV stream from the sampling means (107) and calibration data from the extraction means and processing the at least one IR image on the basis of the calibration data,

- storage means for receiving the converted image from the calculating means and storing it,

wherein the extraction means is rearranged to extract additional data related to the image processing from the part of the signal normally reserved for audio information.

6. (currently amended) A DV processing unit according to claim 5, wherein the receiving means is adapted to the IEEE 1394 ~~FireWire~~ standard using 32kHz 2-ch mode.

7. (cancelled).

8. (currently amended) A computer program product for use in an IR camera comprising means for outputting ~~out-putting~~ a DV signal comprising at least one image, said computer program when run in the IR camera causing the IR camera to perform the following steps:

- retrieving calibration data stored in a memory means in the IR camera

- including said calibration data in the DV output signal, and

further arranged to include said calibration data in the part of the DV output signal normally reserved for audio data.

9. (cancelled).

10. (currently amended) A computer program product for use in a DV processing unit, which, when executed ~~exe-cuted~~ in the DV processing unit will cause the following procedure to take place:

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- extraction of calibration data from an incoming DV stream comprising at least one IR image,

- processing of the at least one image on the basis of the calibration data,

- storage of the converted image,

<u>wherein the extraction of calibration data is performed from the part of the signal normally reserved for audio information</u>.

11. (cancelled).

12. (currently amended) An IR camera according to claim 3, wherein the additional data means is <u>arranged</u> ~~ar-ranged~~ to provide said additional data related to the image processing in the part of the signal normally reserved for audio information.